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STEVENS, John [GB/GB]; J.D.S. Consulting, 18 Wood-
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(74) Agent: GRUBB, Philip; Novartis AG, Corporate Intellec-
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(71) Applicants (*for all designated States except US*): SAN-
DOZ GMBH [AT/AT]; Biochemiestrasse 10, A-6250
Kundl (AT). GRANDIS BIOTECH GMBH [DE/DE];
Grünstrasse 18, 79232 March-Hugstetten (DE).

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(72) Inventors; and

(75) Inventors/Applicants (*for US only*): BETZ, Michael
[DE/CH]; Jägerstrasse 1, 8200 Schaffhausen (CH).

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(54) Title: LIQUID FORMULATIONS WITH HIGH CONCENTRATION OF HUMAN GROWTH HORMONE (hGH) COM-
PRISING PHENOL

(57) Abstract: The present invention relates to liquid formulations of human growth hormone (hGH, somatropin) which are storage
stable, show reduced or no crystallization on storage and are suitable for administration to the human or animal body. More particu-
larly, the invention relates to liquid formulations of human growth hormone which are stable and exhibit minimal or no crystallization
when stored at least for a time at temperatures above refrigeration temperatures.

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 955 062 A (GENENTECH INC) 10 November 1999 (1999-11-10) page 4, paragraph 26 -page 5, paragraph 38; claims 15-21 ---	1-25
P,X	GB 2 371 227 A (GRANDIS BIOTECH GMBH) 24 July 2002 (2002-07-24) claim 11 ---	1-11,15, 16, 18-23,25
Y	US 5 567 677 A (HOEKBY ELVY ET AL) 22 October 1996 (1996-10-22) tables 1-3 --- -/--	1-25

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Further documents are listed in the continuation of box C.

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Patent family members are listed in annex.

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Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer _____

ESTANOL, I

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>WO 01 03741 A (STEVENS JOHN ;GRANDIS BIOTECH GMBH (DE); SIEBOLD BERNHARD (DE)) 18 January 2001 (2001-01-18) page 8, line 9 -page 8, line 22; examples 4,VI; tables 1-4</p> <p>-----</p>	1-25

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